Before using your air conditioner, please read this manual carefully and keep it for future reference.

INVERTER SPLIT-TYPE ROOM AIR CONDITIONER

USER'S MANUAL

Read This Manual

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventative care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of troubleshooting tips. If you review the chart of Troubleshooting Tips first, you may not need to call for service.

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⚠ CAUTION

- Contact an authorised service technician for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- The air conditioner is not intended for use by young children or invalids without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- If the power cord is to be replaced, replacement work shall be performed by authorised personnel only.
- Installation work must be performed in accordance with the national wiring standards by authorised personnel only.

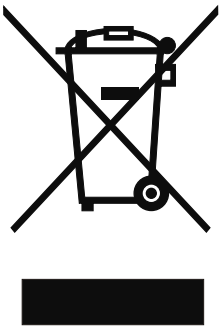
When using this air conditioner in the European countries, the follow information must be followed:

DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

It is prohibited to dispose of this appliance in domestic household waste.
For disposal, there are several possibilities:

A) The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
B) When buying a new product, the retailer will take back the old product at least free of charge.
C) The manufacture will take back the old appliance for disposal at least free of charge to the user.
D) As old products contain valuable resources, they can be sold to scrap metal dealers.

Wild disposal of waste in forests and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.



SAFETY PRECAUTIONS

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage.

- The seriousness is classified by the following indications.

⚠ **WARNING**	This symbol indicates the possibility of death or serious injury.
⚠ **CAUTION**	This symbol indicates the possibility of injury or damage to property.

- Meanings of symbols used in this manual are as shown below.

⊘	**Never do this.**
!	**Always do this.**

⚠ WARNING

! Connect with the power properly.

- Otherwise, it may cause electric shock or fire due to excess heat generation.

⊘ Do not operate or stop the unit by switching on or off the power.

- It may cause electric shock or fire due to heat generation.

⊘ Do not damage or use an unspecified power cord.

- It may cause electric shock or fire.

⊘ Do not modify power cord length or share the outlet with other appliances

- It may cause electric shock or fire due to heat generation.

⊘ Do not operate with wet hands or in damp environment.

- It may cause electric shock.

⊘ Do not direct airflow at room occupants only.

- This could damage your health.

! Always ensure effective earthing.

- No earthing may cause electric shock.

⊘ Do not allow water to run into electric parts.

- It may cause failure of machine or electric shock.

! Always install circuit breaker and a dedicated power circuit.

- No installation may cause fire and electric shock.

! Disconnect the power if strange sounds, smell, or smoke comes from it.

- It may cause fire and electric shock.

⊘ Do not drink water drained from air conditioner.

- It contains contaminants and could make you sick.

⊘ Do not open the unit during operation.

- It may cause electric shock.

! Use the correctly rated breaker or fuse.

- There is risk of fire or electric shock.

⊘ Do not use the power cord close to heating appliances

- It may cause fire and electric shock.

⊘ Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.

- It may cause an explosion or fire.

! Ventilate room before operating air conditioner if there is a gas leakage from another appliance.

- It may cause explosion, fire and, burns.

⊘ Do not disassemble or modify unit.

- It may cause failure and electric shock.

⚠ CAUTION

⊘ When the air filter is to be removed, do not touch the metal parts of the unit.

- It may cause an injury.

⊘ Do not clean the air conditioner with water.

- Water may enter the unit and degrade the insulation. It may cause an electric shock.

ⓘ Ventilate the room well when used together with a stove, etc.

- An oxygen shortage may occur.

ⓘ When the unit is to be cleaned, switch off, and turn off the circuit breaker.

- Do not clean unit when power is on as it may cause fire and electric shock, it may cause an injury.

⊘ Do not put a pet or house plant where it will be exposed to direct air flow.

- This could injure the pet or plant.

⊘ Do not use for special purposes.

- Do not use this air conditioner to preserve precision devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.

ⓘ Stop operation and close the window in storm or hurricane.

- Operation with windows opened may cause wetting of indoor and soaking of household furniture.

⊘ Do not place obstacles around air-inlets or inside of air-outlet.

- It may cause failure of appliance or accident.

ⓘ Turn off the main power switch when not using the unit for a long time.

- It may cause failure of product or fire.

⊘ Do not use strong detergent such as wax or thinner. Use a soft cloth for cleaning.

- Appearance may be deteriorated due to change of product color or scratching of its surface.

ⓘ Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure.

- If bracket is damaged, there is concern of damage due to falling of unit.

ⓘ Always insert the filters securely. Clean filter once every two weeks.

- Operation without filters may cause failure.

⊘ Do not place heavy object on the power cord and take care so that the cord is not compressed.

- There is danger of fire or electric shock.

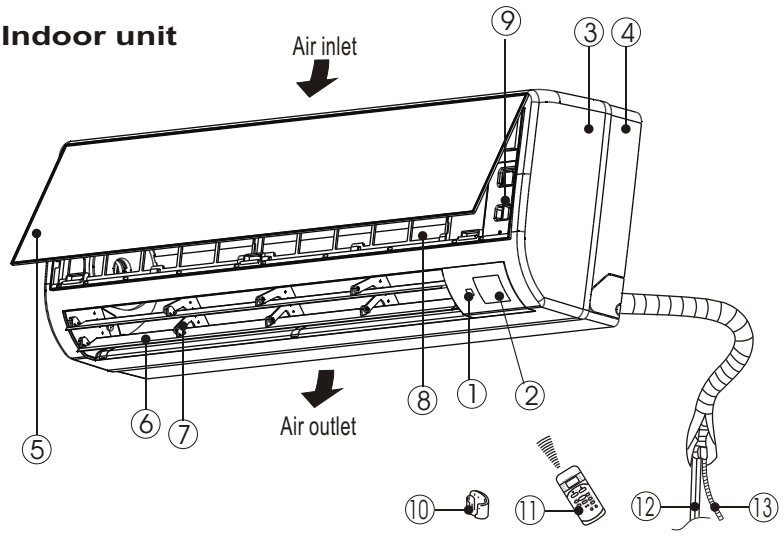
ⓘ Use caution when unpacking and installing. Sharp edges could cause injury.

ⓘ If water enters the unit, turn the unit off and disconnect the power , contact a qualified service technician.

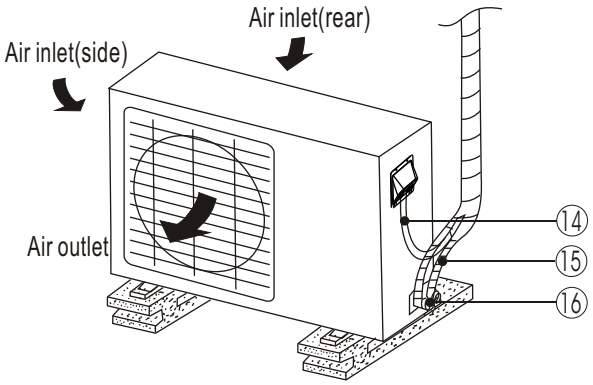
OPERATING INSTRUCTIONS

Parts names

Indoor unit



Outdoor unit



Indoor unit

1. Signal receptor
2. LCD Display window
3. Panel frame
4. Chassis
5. Front panel
6. Horizontal louver
7. Vertical louver
8. Air filter
9. Manual control button
10. Remote controller holder
11. Remote controller
12. Connecting pipe
13. Drain hose

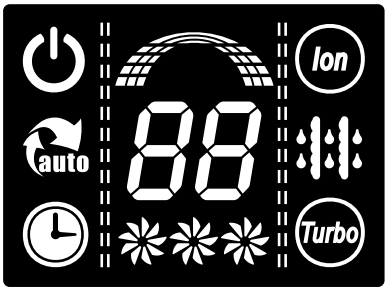
Outdoor unit

14. Connecting cable
15. Connective pipe
16. Stop valve

NOTE:

- All the pictures in this manual are for explanation purpose only. Your air conditioner may be slightly different.
- The actual shape shall prevail.

LCD display window



OPERATION display
Illuminated when the air conditioner is in operation.

AUTO operation display
Illuminated during Auto operation.

DEFROST operation display (For Heating & Cooling model only):
Illuminated when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.

TIMER display
Illuminated during Timer operation.

CLEAN AIR display(optional)
Illuminated when Ionizer is activated.

TURBO operation display
Illuminated when select TURBO function on cooling operation or on heating operation.

DIGITAL DISPLAY
Displayed the current setting temperature when the air conditioner is in operation. When SELF CLEAN feature is activated, it displays " SC ".

FAN SPEED display
Displayed the selected fan speed: AUTO and three fan speed levels: LOW( ), MED( ) and HIGH( ).

Operation Frequency display
This display is separated into five zones. The zones illuminate based on the compressor current frequency. For example, higher frequency will illuminate more zones.

Special function

CLEAN AIR function

Air quality is the key to comfort, this air conditioner is equipped with Ionizer. Ionizer can generate abundant anions to fill the room with refreshing and nature air. Your whole family will enjoy a natural, pure and healthy air everyday.

Follow Me function

The remote control serves as a remote thermostat allowing for the precise temperature control at its location.

To activate the Follow Me feature, point the remote control towards the unit and press the Follow Me button. The remote display is actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes interval until press the Follow Me button again. If the unit does not receive the Follow Me signal during any 7 minute interval, the unit will beep to indicate the Follow Me mode has ended.

SELF CLEAN function

- Function used after the Shut Down of cooling operation to clean the Evaporator and keep it as fresh for the next operation.
- This function is easy to be operated as it is accessed through the Remote Controller.
- For cooling only models, the air conditioner will operate under FAN ONLY mode at LOW fan speed for 16 minutes, and then stop the operation and the unit turn off.
- For cooling & heating models, the unit will operate : FAN ONLY mode at Low fan speed(13 minutes)--Heating operation with LOW fan speed(1 minute)---FAN ONLY operation(2 minutes)--
  Stop Operation---Turn off the unit.

Note:

- This function is only available under COOL(AUTO COOL, FORCED COOL) and DRY mode.
- Before select the function, it is recommended to run the air conditioner under Cooling operation for about half an hour. Once the Self Clean function is activated, all TIMER setting will be cancelled.
- During Self Clean operation, when press the SELF CLEAN button on the remote controller again will stop the operation and turn off the unit.

OPERATING INSTRUCTIONS

NOTE: This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.

Operating temperature

Mode / Temperature	Cooling operation	Heating operation	Drying operation
Room temperature	≥62°F	≤86°F	>50°F
Outdoor temperature	64°F~122°F (5°F ~122°F:For the models with low temperature cooling system)	5°F~ 83°F	50°F~ 122°F

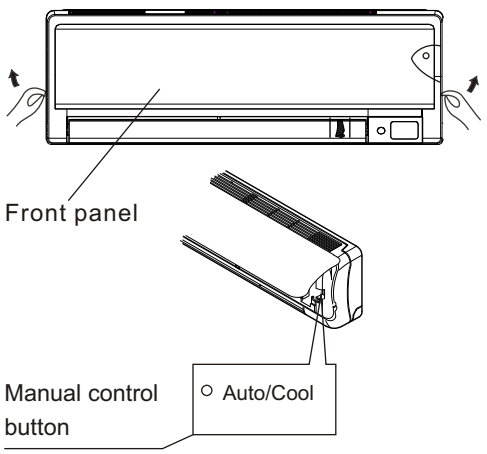
CAUTION:

1. If air conditioner is used outside of the above conditions, certain safety protection features may come into operation and cause the unit to function abnormally.
2. Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation. Please sets the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.
3. Optimum performance will be achieved within these operating temperature.

Suggestion: For the unit adopts an Electric Heater, when the outside ambient temperature is below 0°C, we strongly recommend you to keep the machine plugged in order to guarantee it running smoothly.

Manual operation

Manul operation can be used temporarily in case the remote controller is disable or maintenance necessary.



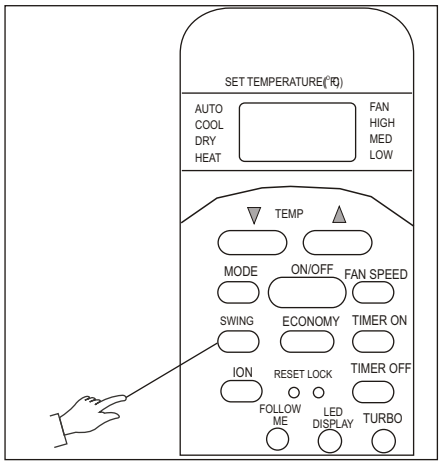
NOTE: The unit must be turned off before operating the manual control button. If the unit is operational, continue pressing the manual control button until the unit is off.

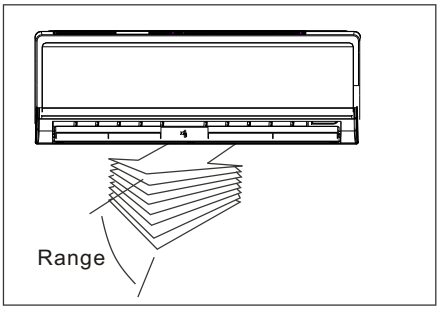
① Grasp both sides of the panel and pull it down, the panel opened upward to an angle of 15°. Push the panel upward and then lift it up.
② One press of the manual control button will lead to the forced AUTO operation. If press the button twice within five seconds, the unit will operate under forced COOL operation.
③ Close the panel firmly to its original position.

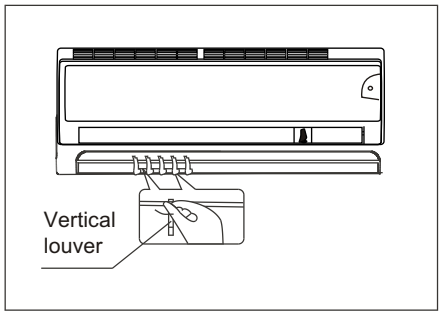
CAUTION:

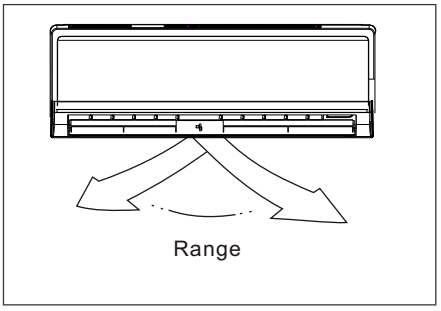
- This button is used for testing purposes only. You had better not choose it.
- To restore the remote controller operation, use the remote controller directly.

Airflow direction control









- Adjust the air flow direction properly otherwise, it might cause discomfort or cause uneven room temperatures.
- Adjust the horizontal louver using the remote controller.
- Adjust the vertical louver manually.

To set the vertical air flow(Up-Down) direction

Perform this function while the unit is in operation. Keep pressing the SWING button on the remote controller to move the louver to the desired direction. The readjusting angle of the horizontal louver is 6° for each press.

To set the horizontal air flow direction (left - right)

Adjust the vertical louver manually using the lever on the left or right side of the vertical louver arm (Depending on model). Take care not to catch fingers on the fan, horizontal louver or to damage vertical louvers. When the air conditioner is in operational and the horizontal louver is in a specific position, move the lever at left (or right, depending on model) end of the air outlet to the desired position.

To automatically swing the air flow direction (up - down)

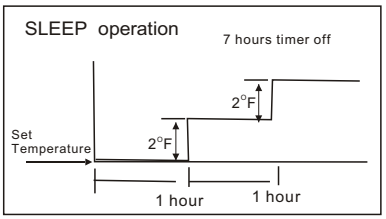
Perform this function while the air conditioner is in operation.

- Keep pressing the SWING button without releasing for more than 2 seconds on the remote controller, the horizontal louver will swing up and down automatically.
- To stop the function, press the DIRECTION/SWING button again.

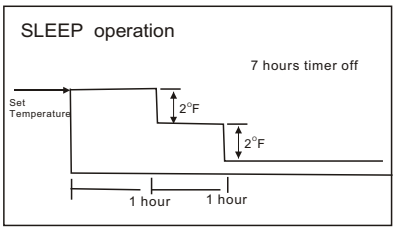
⚠ CAUTION

- The SWING button will be disabled when the air conditioner is not in operation(including when the TIMER ON is set).
- Do not operate the air conditioner for long periods with the air flow direction set downward in cooling or dry mode. Otherwise, condensation may occur on the surface of the horizontal louver causing moisture to drop on to the floor or on furnishings.
- Do not move the horizontal louver manually. Always use the SWING button. If you move this louver manually, it may malfunction during operation. If the louver malfunctions, stop the air conditioner once and restart it.
- When the air conditioner is started immediately after it was stopped, the horizontal louver might not move for approximately 10 seconds.
- Open angle of the horizontal louver should not be set too small, as COOLING or HEATING performance may be impaired due to too restricted air flow area.
- Do not operate unit with horizontal louver in closed position.
- When the air conditioner is connected to power (initial power), the horizontal louver may generate a sound for 10 seconds, this is a normal operation.

How the air conditioner works



Cooling



Heating

AUTO operation

- When you set the air conditioner in AUTO mode, it will automatically select cooling, heating(cooling/heating models only), or fan only operation depending on what temperature you have selected and the room temperature.
- The air conditioner will control room temperature automatically round the temperature point set by you.
- If the AUTO mode is uncomfortable, you can select desired conditions manually.

SLEEP operation

When you push SLEEP button on remote controller during cooling, heating(cooling only type without), or AUTO operation , the air conditioner will automatically increase (cooling) or decrease (heating) 2°F per hour for the first two hours, then hold steady for the next 5 hours, after that the unit will stop operation. The fan speed will be automatically controlled. This feature can maintain the most comfortable temperature and save more energy for you.

DRYING operation

- The fan speed will be automatically controlled under dry operation.
- During the dry operation, if the room temperature is lower than 50°F, the compressor stops operation and restarts until the room temperature is above 54°F.

Optimal operation

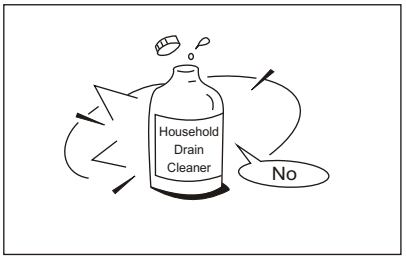
To achieve optimal performance, please note the following:

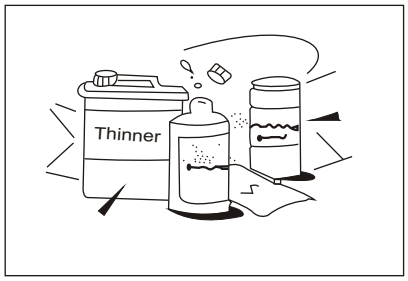
Adjust the air flow direction correctly so that it is not directed on people.

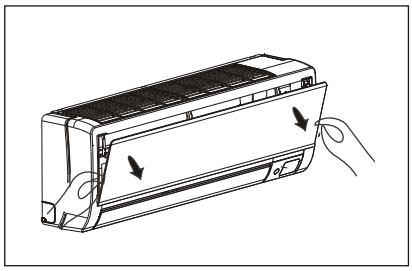
- Adjust the temperature to achieve the highest comfort level. Do not adjust the unit to excessive temperature levels.
- Close doors and windows on COOL or HEAT modes, or performance may be reduced.
- Use TIMER ON button on the remote controller to select a time you want to start your air conditioner.
- Do not put any object near air inlet or air outlet, as the efficiency of the air conditioner may be reduced and the air conditioner may stop running.
- Clean the air filter periodically, otherwise cooling or heating performance may be reduced.

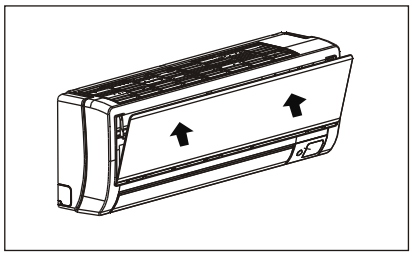
Do not operate unit with horizontal louvre in closed position.

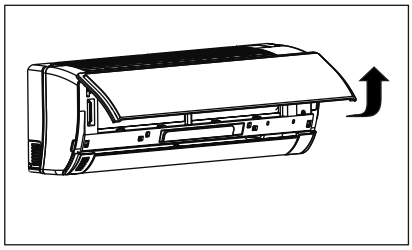
Care and maintenance











Cleaning the Grille, Case and Remote Controller

- Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTE: Supply power must be disconnectd before cleaning the indoor unit.

⚠ CAUTIONS

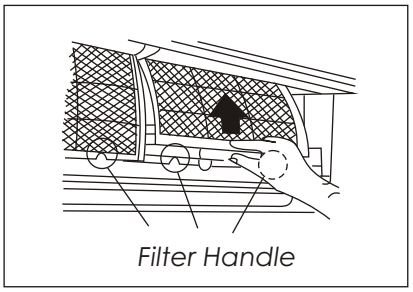
- A cloth dampened with cold water may be used on the indoor unit if it is very dirty. Then wipe it with a dry cloth.
- Do not use a chemically treated cloth or duster to clean the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.
- Never use water hotter than 104°F to clean the front panel, it could cause deformation of discoloration.

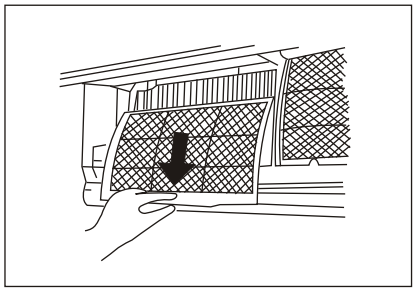
Cleaning the air filter

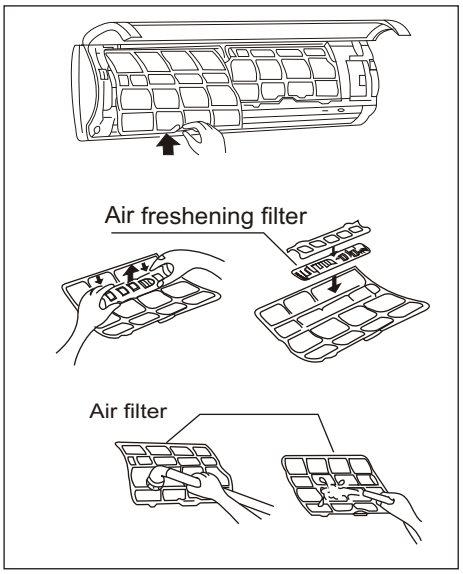
NOTE: Supply power must be disconnectd before cleaning the indoor unit.

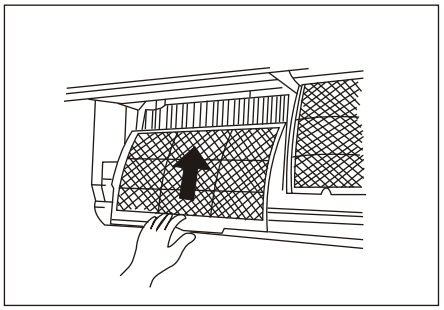
The air filters behind the front panel should be checked and cleaned once every 2 weeks or more often if necessary. A clogged air filter will reduce cooling/heating efficiency.

1. Grasp both sides of the panel and pull it down, the panel opened upward to an angle of 15°. Push the panel upward and then lift it up.
2. Take hold of the handle of the air filter and lift it up slightly to take it out from the filter holder, then pull it downwards.









3. Remove the AIR FILTER from the indoor unit.
   - Clean the AIR FILTER once two weeks.
   - Clean the AIR FILTER with a vacuum cleaner or water, then dry it up in cool place.
4. Remove the **Air Freshening Filter**(**Optional filter**: Silver Ion filter /Bio filter / Vitamin C filter/3M air purifier filter) from its support frame.
   - Clean the air freshening filter at least once a month, and replace it every 4-5 months.
   - Clean it with vacuum cleaner, then dry it in cool place.
5. Install the air freshening filter back into position.
6. Insert the upper portion of air filter back into the unit taking care that the left and right edges line up correctly and place filter into position.

Maintenance

If you plan to idle the unit for a long time, perform the following:

(1) Operate the fan for about half a day to dry the inside of the unit.
(2) Stop the air conditioner and disconnect power. Remove the batteries from the remote controller.
(3) The outdoor unit requires periodic maintenance and cleaning. Do not attempt to do this yourself. Contact your dealer or servicer.

Checks before operation

- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

⚠ Caution

- Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
- Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
- When cleaning the unit, first make sure that the power and circuit breaker are turned off.

The following events may occur during normal operation.

1. **Protection of the air conditioner.**

   Compressor protection

   - The compressor can't restart for 3 minutes after it stops.

   Anti-cold air (Cooling and heating models only)

   - The unit is designed not to blow cold air on HEAT mode, when the indoor heat exchanger is in one of the following three situations and the set temperature has not been reached.
     A) When heating has just starting.
     B) Defrosting.
     C) Low temperature heating.
   - The indoor or outdoor fan stop running when defrosting (Cooling and heating models only).

   Defrosting (Cooling and heating models only)

   - Frost may be generated on the outdoor unit during heat cycle when outdoor temperature is low and humidity is high resulting in lower heating efficiency of the air conditioner.
   - During this condition air conditioner will stop heating operation and start defrosting automatically.
   - The time to defrost may vary from 4 to 10 minutes according to the outdoor temperature and the amount of frost build up on the outdoor unit.

2. **A white mist coming out from the indoor unit**
   - A white mist may generate due to a large temperature difference between air inlet and air outlet on COOL mode in an indoor environment that has a high relative humidity.
   - A white mist may generate due to moisture generated from defrosting process when the air conditioner restarts in HEAT mode operation after defrosting.

3. **Low noise of the air conditioner**
   - You may hear a low hissing sound when the compressor is running or has just stopped running. This sound is the sound of the refrigerant flowing or coming to a stop.
   - You can also hear a low "squeak" sound when the compressor is running or has just stopped running. This is caused by heat expansion and cold contraction of the plastic parts in the unit when the temperature is changing.
   - A noise may be heard due to louver restoring to its original position when power is first turned on.

4. **Dust is blown out from the indoor unit.**
   This is a normal condition when the air conditioner has not been used for a long time or during first use of the unit.

5. **A peculiar smell comes out from the indoor unit.**
   This is caused by the indoor unit giving off smells permeated from building material, from furniture, or smoke.

6. **The air conditioner turns to FAN only mode from COOL or HEAT (For cooling and heating models only) mode.**
   When indoor temperature reaches the temperature setting on air conditioner, the compressor will stop automatically, and the air conditioner turns to FAN only mode. The compressor will start again when the indoor temperature rises on COOL mode or falls on HEAT mode (For cooling and heating models only) to the set point.

OPERATION TIPS

7. Dripping water may generate on the surface of the indoor unit when cooling in a high relatively humidity (relative humidity higher than 80%). Adjust the horizontal louver to the maximum air outlet position and select HIGH fan speed.

8. **Heating mode (For cooling and heating models only)**
The air conditioner draws in heat from the outdoor unit and releases it via the indoor unit during heating operation. When the outdoor temperature falls, heat drawn in by the air conditioner decreases accordingly. At the same time, heat loading of the air conditioner increases due to larger difference between indoor and outdoor temperature. If a comfortable temperature can't be achieved by the air conditioner, we suggest you use a supplementary heating device.

9. **Auto-restart function**
Power failure during operation will stop the unit completely.
For the unit without Auto-restart feature, when the power restores, the OPERATION indicator on the indoor unit starts flashing. To restart the operation, push the ON/OFF button on the remote controller. For the unit with Auto-restart feature, when the power restores, the unit restarts automatically with all the previous settings preserved by the memory function.

10. Lightning or a car wireless telephone operating nearby may cause the unit to malfunction. Disconnect the unit with power and then re-connect the unit with power again. Push the ON/OFF button on the remote controller to restart operation.

11 **The protection of outdoor low temperature**
The protection of outdoor low temperature can be activated only in the HEATING mode.
The unit will stop operating and the display for the code of malfunction "P3" illuminates on the LCD of the indoor unit when the outdoor temperature is or lower than -15^{o}C,but the indoor unit in this situation can still receive the signal from the remote controller.The unit will restart automatically with all the previous settings preserved by the memory function when the outdoor temperature is or higher than -12^{o}C for 10 minutes and the compressor stop operating for more than one huor.The unit will operate automatically with all the previous settings also when the outdoor temperature is or higher than 5^{o}C for 10 minutes.
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Troubleshooting Tips

Stop the air conditioner immediately if one of the following faults occur. Disconnect the power and contact the nearest customer service center.	
Trouble	If the following code appears on the LED window, disconnect the power and contact the service people: E0,E1,E2,E3,E4,E5,E6,E7,E8 or P0,P1,P2,P3,P4.
	Fuse blows frequently or circuit breaker trips frequently.
	Other objects or water penetrate the air conditioner.
	The remote controller won't work or works abnormally.
	Other abnormal situations.

Malfunctions	Cause	What should be done?
Unit does not start	Power cut	Wait for power to be restored.
	Unit may have become unplugged.	Check that plug is securely in wall receptacle.
	Fuse may have blown.	Replace the fuse.
	Battery in Remote controller may have been exhausted.	Replace the battery.
	The time you have set with timer is incorrect.	Wait or cancel timer setting.
Unit not cooling or heating (Cooling/ heating models only) room very well while air flowing out from the air conditioner	Inappropriate temperature setting.	Set temperature correctly. For detailed method please refer to "Using remote control" section.
	Air filter is blocked.	Clean the air filter.
	Doors or Windows are open.	Close the doors or windows.
	Air inlet or outlet of indoor or outdoor unit has been blocked.	Clear obstructions away first, then restart the unit.
	Compressor 3 minutes protection has been activated.	Wait.
If the trouble has not been corrected, please contact a local dealer or the nearest customer service center. Be sure to inform them of the detailed malfunctions and unit model.		

Notes: Do not attempt to repair the unit yourself.
Always consult an authorised service provider.

CS046U-BPV1